

1. SOBOLEV, A. G.
2. USSR (600)
4. Technology
7. Assembling of electric equipment of transformer sub-stations of industrial enterprises, Moskva, Gos. izd-vo lit-ry po stroit. arkhitekt., 1952.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

SOBOLEV, I.I.  
 KUZ'MICH, A.S., redaktor; BARABANOVA, F.A., redaktor; BOBROV, I.V., redaktor;  
 VLADIMIRSKIY, V.V., redaktor; GRAFOV, L.Ye., redaktor; DOKUKIN, A.V.,  
 redaktor; YERASHKO, I.S., redaktor; ZABLODSKIY, G.P., redaktor; ZADE-  
 MIDKO, A.N., redaktor; ZAYTSEV, A.P., redaktor; ZASADYCH, B.I., redak-  
 tor; KAGAN, P.Ya., redaktor; KRASNIKOVSKIY, G.V., redaktor; KRIVONOGOV,  
 K.K., redaktor; LALAYANTS, A.M., redaktor; MELAMED, Z.M., redaktor;  
 MINDELI, E.O., redaktor; MOGILEVSKIY, N.M., redaktor; OSTROVSKIY, S.B.,  
 redaktor; POPOV, T.T., redaktor; SKOCHINSKIY, A.A., redaktor; SKURAT,  
 V.K., redaktor; SOROLEV, G.G., redaktor; STUGAREV, A.S., redaktor;  
 SUMCHENKO, V.A., redaktor; TERPIGOREV, A.M., redaktor; SHEVYAKOV, L.D.,  
 redaktor; SHELKOV, A.A., redaktor; ANDREYEV, G.G., tekhnicheskiy redaktor

[Safety regulations in coal and shale mines] Pravila bezopasnosti v  
 ugol'nykh i slantsevykh shakhtakh. Moskva, Ugletekhizdat, 1953. 226 p.  
 (MIRA 8:4)

1. Russia (1923- U.S.S.R.) Ministerstvo ugol'noy promyshlennosti.  
 (Coal mines and mining--Safety measures)

MAREVICH, Nadezhda Viktorovna; SOBOLEV, G.G., redaktor; GRISHAYENKO, M.I.,  
redaktor; IL'INSKAYA, G.M., ~~tekhnicheskij~~ redaktor

[Spontaneous combustion of thick coal seams in the Prokop'ev  
deposit, Kuznetsk Basin] Samovozgoranie uгля moshchnykh plastov  
prokop'evskogo mestorozhdeniya kuzbassa. Moskva, Ugletekhnizdat,  
1955. 135 p. (MLRA 9:2)  
(Kuznetsk Basin--Coal mines and mining) (Combustion, Spontaneous)

PUGACH, Isay Markovich; POLESIN, Yakov Lazarevich; SHUB, Yevsey Yefimovich;  
SOBOLEV, G.G., redaktor; GRICHAYENKO, M.I., redaktor; ALADOVA, Ye.I.,  
tekhnicheskii redaktor; PROZOROVSKAYA, V.L., tekhnicheskii redaktor.

[Mine rescuing and the prevention of mine accidents] Gornospasatel'noe  
delo i preduprezhdenie shakhtnykh avariï. Moskva, Ugletekhizdat, 1955.  
398 p. (MLRA 9:4)

(Mine rescue work)

SOBOLEV, G.G., inzhener.

Fire prevention in coal mines. Bezop.truda v prom. 1 no.5:3-7  
'57. (MIRA 10:7)  
(Coal mines and mining--Fires and fire prevention)

SOBOLEV, G.G.

SOBOLEV, G.G., inzh.

Safety departments in mines in the U.S.S.R. Bezop.truda v prom.  
1 no.11:10-13 N '57. (MIRA 10:10)  
(Mining engineering--Safety measures)

SOBOLEV, G.G., gorn. inzh.; MESHCHERYAKOV, Ya. M., gorn. inzh. [deceased];  
NIKOLAYEV, V.F., otv. red.; ALADOVA, Ye.I., tekhn. red.; LOMILINA,  
L.N., tekhn. red.

[Tactics of regimented mine rescue units] Taktika voenizirovannykh  
gornospasatel'nykh chastei pri vedenii gornospasatel'nykh rabot  
v shakhtakh. [Moskva] Ugletekhizdat, 1958. 347 p. (MIRA 11:12)  
(Mine rescue work)  
(Coal mines and mining--Safety measures)

SOBOLEV, G.G., inzh.

Mine accident prevention. Bezop. truda v prom. 2 no.7:3-7  
MIRA 11:9)  
Jl '58.  
(Mining engineering--Safety measures)

SOBOLEV, G.G.; MIKHALENKOV, S.P., otv.red.; GRISHAYENKO, M.I., red.  
izd-va; SHKLYAR, S.Ya., tekhn.red.

[Mine rescue work] Gornospasatel'noe delo. Moskva, Ugletekh-  
izdat, 1959. 79 p. (MIRA 12:11)  
(Mine rescue work)

SOBOLEV, Georgiy Georgiyevich; SLAVOROSOV, A.Kh., red.izd-va;  
SHKLYAR, S.Ya., tekhn.red.

[Organization of mine rescue work] Organizatsiya gorno-  
spasatel'nykh robot. Izd.3., perer. i dop. Moskva, Ugle-  
tekhizdat, 1959. 269 p. (MIRA 12:8)  
(Mine rescue work)

ABRAMOV, F.A., prof., doktor tekhn.nauk; BALTAYTIS, V.Ya., inzh.;  
BARON, L.I., doktor tekhn.nauk; BATALIN, S.A., dotsent, kand.  
tekhn.nauk; BYKOV, L.N., prof., doktor tekhn.nauk; VESELOVSKIY,  
V.S., prof., doktor tekhn.nauk; VLADIMIRSKIY, V.V., kand.tekhn.  
nauk [deceased]; VORONIN, V.N., doktor tekhn.nauk [deceased];  
VORONINA, L.D., kand.tekhn.nauk; VOROPAYEV, A.F., prof.,dokt.tekhn.  
nauk; ZHUKOV, G.I.; KOMAROV, V.B., prof., doktor tekhn.nauk;  
KRICHEVSKIY, R.M., kand.tekhn.nauk; KSENOFONTOVA, A.I., dotsent,  
kand.tekhn.nauk; LIDIN, G.D., doktor tekhn.nauk; MILETICH, A.F.,  
dotsent, kand.tekhn.nauk; MUSTEL', P.I., dotsent, kand.tekhn.  
nauk; NOVIKOV, K.P., kand.tekhn.nauk; OGIEVSKIY, V.M., prof.,  
doktor tekhn.nauk [deceased]; POLESIN, Ya.I., inzh.; RIPP, M.G.,  
dotsent, kand.tekhn.nauk; SOBOLEV, G.G., inzh.; SOLOV'YEV, P.M.,  
inzh.; SUKHAREVSKIY, V.M., kand.tekhn.nauk; KHEYFITS, S.Ya.,dotsent,  
(Continued on next card)

SOBOLEV, G.G.; inzh.

Eliminate causes for undergrounds fires. Bezop. truda v prom. 3 no.6:  
9-11 Je '59. (MIRA 12:10)

(Mine fires)

SOMOLEV, G.G., inzh.

Intensify the introduction of improved respirators. Bezop.  
truda v prom. 4 no.9:7-10 S '60. (MIRA 13:9)  
(Respirators)

SOBOLEV, Georgiy Georgiyevich; POLESIN, Ya.L., otv. red.; RYKOVA, Z.L.,  
red.; PRONINA, N.D., tekhn. red.

[Developing plans for preventing accidents in coal mines] Opyt  
razrabotki planov likvidatsii avarii dlia ugol'nykh shakht. Mo-  
skva, TSentr. in-t tekhn. informatsii ugol'noi promyshl., 1962.  
62 p. (MIRA 16:1)

(Coal mines and mining—Safety measures)

IZRAITEL', S.A., otv. red.; MOISEYEV, S.L., otv. red.; SKURAT, V.K.,  
otv. red.; SLASTUNOV, V.G., otv. red.; ZAYTSEV, A.P., red.;  
POLESIN, Ya.L., red.; SKURAT, V.K., red.; SLASTUNOV, V.G., red.;  
SOROLEV, G.G., red.; FEOKTISTOV, A.T., red.; MIROSHNICHENKO,  
V.D., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Unified safety rules for mining metalliferous, non-metallic, and  
placer deposits by the underground method] Edinye pravila bez-  
opasnosti pri razrabotke rudnykh, nerudnykh i rossypnykh mesto-  
rozhdanii podzemnym sposobom. Moskva, Gosgortekhzdat, 1962. 253 p.  
(MIRA 15:12)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za  
bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.  
(Mine safety)

YEGOROV, Valeriy Aleksandrovich; SOBOLEV, G.G., otv. red.;  
VINOGRADOVA, G.V., red. izd-va; MAKSIMOVA, V.V., tekhn.  
red.; LAVRENT'YEVA, I.G., tekhn. red.

[Ways and means of preventing underground accidents] Sp-  
soby i priemy likvidatsii podzemnykh avarii. Moskva, Gos-  
gortekhnizdat, 1963. 83 p. (Mine safety) (MIRA 16:7)

BOYKO, A.A., inzh.; DRUKOVANYI, M.F., kand. tekhn. nauk; BABOKIN, I.A., inzh.; ZAYTSEV, A.P., inzh.; POLESIN, Ya.L., inzh.; SOBOLEV, G.G., inzh.; ZHUKOV, V.V., kand. tekhn. nauk; TOPCHIEV, A.V., prof.; VEDERNIKOV, V.I., kand. tekhn. nauk; OKHRIMENKO, V.A., kand. tekhn. nauk; MELAMED, M.Z., kand. tekhn. nauk; KUZNETSOV, K.K., inzh.; RABINOVICH, I.A.; YASNYI, V.K., inzh.; LIVSHITS, I.I., kand. tekhn. nauk, rezensent; BARANOV, A.I., inzh., rezensent; LOMILINA, L.N., tekhn. red.

[Brief handbook of a coal mining engineer] Kratkiy spravochnik gornogo inzhenera ugol'noi shakhty. Moskva, Gosgortekhnizdat, 1963. 639 p. (MIRA 17:3)

ACC NR: AR7000946

SOURCE CODE: UR/0275/66/000/011/A016/A016

AUTHOR: Sobolev, G. H.; Soboleva, A. V.

TITLE: Some specific features of the mechanism of changing the frequency by voltage in solid-plate magnetrons

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 11A113

REF SOURCE: Sb. Vopr. elektron. sverkhvysok. chastot. Vyp. 2, Saratov, Saratovsk, un-t, 1966, 116-128

TOPIC TAGS: magnetron, electron energy, frequency change, solid plate magnetron

ABSTRACT: The tubes investigated differ in the design of the output terminal (O). The latter has the shape of a slot with a strip line in the glass version, or of a symmetrical crown in the metallic version. The following results were obtained:  
1) in all the tubes, the dependence of frequency on voltage is of a linear nature. Frequency changes can be made within a wide range. Measurements with a matched load, yield oscillations of one made in tubes with pin type output terminals. Varia-

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ACC NR: AR7000946

tions in cathode temperatures determine the instability of the oscillations observed. In pin type tubes, stable single-mode oscillations were obtained without filament adjustment by applying pulses. Tubes with slot output terminals always exhibited multifrequency. The frequency pulling is very slight using a mismatch load with a 5 to 7 VSWR in magnetrons with pin-type output terminals (less than 0.05-mc accuracy) or it does not exist at all. It is presumed that the oscillations obtained are basically purely internal electron oscillations of a single-mode "diotron" type. The mechanism of oscillations is decisive in establishing the oscillations observed, which is substantiated by results of experiments carried out on open-loop-flow magnetrons. A bibliography of 8 titles is included. [Translation of abstract] [DW]

SUB CODE: -09/

Card 2/2

11.1.1.

00055 Izucheniye fizicheskikh i khimicheskikh svoystv sverkhchistoty  
vody. Izv. Vsesoyuznogo nauchno-issledovatel'skogo tsentra  
fizicheskoy khimii, 1948, no 1, s. 218-21

U. S. N. 11.1.1. 21, 1945

BAYEVA, O.M.; SOBOLEV, G.I.

Unit for simultaneous determination of the viscosity and  
electroconductivity of slags at high temperatures. Zav.  
lab. 31 no.1:125-126 '65. (MIRA 18:3)

1. Nauchno-issledovatel'skiy institut metallurgii, Chelyabinsk.

SOBOLEV, G.K.  
RAVICH, M.B.; KNORRE, G.F., professor, doktor tekhnicheskikh nauk, redaktor;  
SOBOLEV, G.K., redaktor; ALEKSEYEVA, T.V., tekhnicheskii redaktor

[Simplified methods of computation in thermotechnics] Uproshchennaya metodika teplotekhnicheskikh raschetov. Moskva, Izd-vo Akademii nauk SSSR, 1955. 218 p. (MLRA 9:2)  
(Heat engineering)

A handwritten signature in dark ink, appearing to be 'Sobolev' or similar, with a long horizontal stroke extending to the right.

Lebedev, G. I.

(Power Institute, USSR Academy of Sciences, Moscow.)

"High Temperature Oxidation and Burning of Carbon Monoxide,"

paper submitted at the Sevetnth Intl. Symposium on Combustion - London and Oxford, England, 28 Aug - 3 Sep '58.

C - 3,900,830, 25 July 1958.

SOV 137 59 2 2324

Translation from: Referativnyy zhurnal. Metallurgiya. 1959. Nr 2 p 13 (USSR)

AUTHOR: Sobolev G. K.

TITLE: On Measuring of Combustion Temperatures of Air Mixtures of Carbon Monoxide and Methane by an Optical Method (Ob izmerenii temperatur goreniiya vozdukhnykh smesey okisi ugleroda i metana opticheskim sposobom)

PERIODICAL: V sb : Issled. protsessov goreniiya. Moscow AN SSSR 1958 pp 110 112

ABSTRACT: The measurements of the concentration of combustion products in the radial direction in horizontal planes close to the cone of a Bunsen burner exhibit much irregularity. This indicates a probable nonuniformity of the temperatures in this direction. To measure the temperature of the central part of the cone of the burner finely dispersed NaCl solution was introduced into it and the temperature was measured by the method of the reflection of the spectral line D of the sodium. The burner had the shape of a pipe 10 mm in diam and 1000 mm long. At the distance of 600 mm from the nozzle exit section NaCl was introduced into the center of the jet through a thin tube with a 2 mm outer diam and an 0.8-mm inner diam. The 1-2 m/sec velocity of the gas flow

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*Lab. for Intensification of Furnace Processes, Power Inst AS USSR.*

SOV/137 50-2 2324

On Measuring of Combustion Temperatures of Air Mixtures of Carbon (cont.)

ensured its laminar character. The accuracy of measurement was 30-40°C and was verified by calculation of the theoretical temperature according to the composition of the combustion products withdrawn from the respective region of the flame.

M. M.

Card 2/2

CHEKALIN, E.K.; SOBOLEV, G.K.

Peculiarities of gas flow in laminar Bunsen flame. Inzh.-fiz.zhur.  
no.4:72-75 Ap '58. (MIRA 11:7)

1.Energeticheskiiy institut AN SSSR, g.Moskva.  
(Flame)

SOBOLEV, G.K.

Investigation of high-temperature oxidation and burning of carbon  
monoxide. Inzh.-fiz.zhur. no.5:34-45 My '58. (MIRA 12:1)

1. Energeticheskiy institut AN SSSR, g. Moskva.  
(Carbon monoxide) (Oxidation) (Combustion)

SOBOLEV, G. K., Candidate Tech Sci (diss) -- "High-temperature oxidation and combustion of carbon monoxide". Moscow, 1959, published by the Acad Sci USSR. 15 pp (Acad Sci USSR, Power Engineering Inst im G. M. Krzhizhanovskiy), 175 copies (KL, No 24, 1959, 141)

S/170/60/003/03/24/034  
B014/B007

11.10.10

AUTHOR:

Sobolev, G. K.

TITLE:

The Combustion of Methane

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 3,  
pp. 129 - 132

TEXT: The author says that a great number of papers has been published on the important fuel methane, but that nevertheless the burning process is insufficiently known. Reference is made to the paper by G. A. Barskiy and Ya. B. Zel'dovich (Ref. 1) in which the lean mixture  $\text{CH}_4\text{-O}_2\text{-N}_2$  was investigated. Referring to the thermal diffusion theory for normal flame propagation, formula (4) for the standard component of the rate of flame propagation is derived. By investigation the combustion reaction, formula (5):

$u_n = \text{const.} \sqrt{(O_2)_{\text{eff}}^4}$  is derived for the standard component of the flame velocity. Here  $(O_2)_{\text{eff}}$  is the effective concentration of oxygen in the reaction zone. This formula holds for the assumption that the molar concentration

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The Combustion of Methane

S/170/60/003/03/24/034  
B014/B007

tration of  $\text{CH}_4$  in the combustion zone is constant. The change of the molar concentration of  $\text{CH}_4$  made an investigation of the dependence of the reaction rate on temperature necessary. It was shown in preparatory experiments that the temperature in the flame front differs from the normal combustion temperature only by 20-40°C. Instead of the maximum temperature, the measuring temperature in the central zone of the torch was therefore used in the calculations carried out here. In Fig. 1 the dependence of the flame height on the excess concentration of oxygen at a burning temperature of 2280°K is shown. Fig. 2 shows the dependence of the standard component of the velocity of the methane flame on the effective oxygen concentration in the reaction zone at various temperatures. Good agreement between the theoretical values may be observed. From the dependence of the combustion rate on the reciprocal temperature as shown in Fig. 3 conclusions are drawn as to an activation energy of the combustion process of  $E = 31,400 \text{ cal/mcl}$ . There are 3 figures and 4 Soviet references.

ASSOCIATION: Energeticheskiy institut im. G. M. Krzhizhanovskogo AN SSSR,  
g. Moskva (Institute of Power Engineering imeni  
G. M. Krzhizhanovskiy of the AS USSR, City of Moscow)

Card 2/2

SOBOLEV, G.K., kand.tekhn.nauk [translator]; GOL'DENBERG, S.A.,  
kand.tekhn.nauk, red.; SHERMANINA, V.N., red.; DOTSENKO, V.,  
tekhn.red.

[Flames and chemical kinetics] Plamena i khimicheskaya  
kinetika; sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1961.  
352 p. Translated from the English. (MIRA 15:2)  
(Flame) (Chemical reaction, Rate of)

TRUTNEV, G.I. KOCHENKOV, V.P., KOZLOVSKIY, G.P.; SOBOL, I.I.

Efforts to control the freezing of ore at the Sokolovsko-Sarbay  
Combine. Gor. zhur. no.5:74-75 My '65. (MIRA 18:6)

1. Otdeleniye Instituta gornogo dela Gosmetallurg-Komiteta, g.  
Rudnyy (for Trutnev, Kochenkov). 2. Sokolovsko-Sarbaykiy  
kombinat (for Kozlovskiy, Sobolev).

ACC NR:

AR7000945

SOURCE CODE: UR/0275/66/000/011/A016/A016

AUTHOR: Sobolev, G. L.

TITLE: The maximal speed for setting a constant potential in a magnetron oscillator

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 11A112

REF SOURCE: Sb. Vopr. elektron. sverkhvysok. chastot. Vyp. 2. Saratov, Saratovsk. un-t, 1966, 102-115

TOPIC TAGS: magnetron, electric potential, potential rise time, magnetron oscillator

ABSTRACT: The assumption that the maximal relative rise time of the constant plate potential is equal to the rate of setting an hf potential makes it possible to estimate the former provided the latter is known. The rise time of the hf potential is calculated under certain assumptions for synchronized and stabilized magnetrons. When the ratio of the synchronizing hf potential to the output potential is  $5 \cdot 10^{-2}$ , rise time increases more than tenfold as compared to the

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45823-66 EWT(1) JM  
ACC NR: AR6015965 SOURCE CODE: UR/0275/65/000/011/A020/A020 46  
B

AUTHOR: Sobolev, G. L.

TITLE: Analysis of the frequency characteristics of a multicavity magnetron 25

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 11A119

REF SOURCE: Sb. Vopr. elektron. sverkhvysok. chastot. Vyp. 1. Saratov. Saratovsk.  
un-t, 1964, 57-67

TOPIC TAGS: magnetron, frequency characteristic, electron potential

ABSTRACT: A representation for the nature of averaged electron phase trajectories in a cylindrical magnetron is used as the basis for an approximate calculation of the frequency characteristics of the magnetron under conditions of voltage retuning at high rf-potentials. It is found that retuning transconductance depends on the rf-potential. In the case where the number of electrons entering the interaction space is limited, there is only a slight change in the rf-potential and transconductance is constant. These conditions comprise voltage retuning. In all other cases transconductance is changed by rf-potential and characterizes electron frequency shift. Frequency pulling due to a mismatched load at constant anode voltage also depends on the change in rf-potential. M. R. [Translation of abstract]

SUB CODE: 09

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UDC: 621.385.64

1 123456 (12345) - JH  
ACC NR: AP6014240

SOURCE CODE: UR/0109/66/011/005/0860/0869

AUTHOR: Bayburin, V. B.; Sobolev, G. L.

ORG: none

TITLE: Calculating space-charge fields in a plane-parallel magnetron <sup>50</sup><sub>B</sub>

SOURCE: Radiotekhnika i elektronika, v. 11, no. 5, 1966, 860-869

TOPIC TAGS: magnetron, space charge

ABSTRACT: An analytical solution is obtained for the space-charge field in a plane-parallel magnetron; the solution takes into account the specified electron "spoke" (stream) shape and specified bounds and holds true for any point of the interaction space. The transverse component of the electric field of the "spoke" space charge is determined. Triagonal, multi-trapezoid, and arbitrary shapes of the "spoke" are examined. Two extreme cases of zero boundary potential are considered: (a) zero potential approaching infinity and (b) zero potential at the "spoke" boundary. An exact solution is developed for the "a" case and an approximate solution for the "b" case. Orig. art. has: 5 figures and 42 formulas.

SUB CODE: 09 / SUBM DATE: 22Dec64 / ORIG REF: 004 / OTH REF: 004

UDC: 621.385.64.001.24:537.525.92

Card 1/1 ✓

ZOLOTUKHIN, V.F.; SHCHEPILOV, P.S.; SOBOLEV, G.P.

Fixed vibration screen with annular motion. Trudy KhPI 31 no.1:85-  
90 '59. (MIRA 13:10)

(Vibrators)

SOBOLEV, G.P.; MITSEV, Yu.S.

Effectiveness of using rotary grinders for grinding clayey  
materials. Stek. i ker. 18 no.6:37-40 Je '61. (MIRA 14:7)  
(Grinding machines)  
(Clay)

IZYUMSKIY, V.P., inzh.; SOBOLEV, G.P.

Round vibrating screens with peripheric loading of materials and their  
design. Khim.mashinostr. no.2:5-8 Mr-Ap '63. (MIRA 16:4)  
(Screens (Mining))

SOBOLEV, G.P., inzh.

Effect of the parameters of a rotary-vibratory (gyratory)  
screen on the efficiency of its work. Stek. i ker. 20 no.6:  
26-30 Je '63. (MIRA 16:6)

1. Khar'kovskiy politekhnicheskij institut imeni V.I. Lenina.  
(Sieves)  
(Ceramic industries—Equipment and supplies)

SOBOLEV, G.P., kand. tekhn. nauk; SKOMOROKHOV, A.A., inzh.

Device for the manufacture of feeler mechanisms. Stek. 1 ker.  
22 no.4343-44 Ap '65. (MIRA 18:5)

1. Khar'kovskiy politekhnicheskij institut (for Sobolev).
2. Khar'kovskiy plitochnyy zavod (for Skomorokhov).



SOBOLEV, G.V.

"Some Problems of the Maneuverability of a Ship." Cand  
Tech Sci, Leningrad Shipbuilding Inst, Leningrad, 1954. (KL, No  
7, Feb 55)

SO: Sum. No. 631, 26 Aug 55- Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions  
(14)

SOV/124-58 3-2927

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p 54 (USSR)

AUTHOR: Sobolev, G. V.

TITLE: On the Problem of the Motion Astern of a Ship (K voprosu o zadnem khode sudov)

PERIODICAL: Tr. Leningr. korablestroit. in-ta, 1954, Nr 14, pp 98-103

ABSTRACT: The paper first analyzes a solution, as suggested by M. G. Vidonov [Zadniy khod rechnykh sudov (Motion Astern of River Boats). Rechizdat, 1951] of a problem relative to the stability of the motion astern of ships. It is pointed out that the referenced work is basically faulty, because it is founded on incorrect equations. The results of such work are worthless in practice. The author further discusses in detail the qualitative differences between stability in problems regarding motion ahead and astern; he rederives the differential equations of the motion, on the basis of which a stability criterion for a ship engaged in motion astern is obtained and recommendations are formulated for the improvement of this quality for specific vessels.

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A. N. Shmyrev

SOV/124-58-1-694  
Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 86 (USSR)

AUTHOR: Sobolev, G. V.

TITLE: Contribution to the Standardization of the Stability of Tugboats (K  
voprosu o normirovanii ostoychivosti buksirov)

PERIODICAL: Tr. Tsent. n. -i. in-ta morsk. flota, 1956, Nr 7, pp 36-49

ABSTRACT: It is assumed that the process of a jerk in a towing hawser has the character of an accelerated motion. The author determines the limiting jerking speed by setting up a differential equation for the motion of the tugboat and solving it by a numerical method. The results are adduced in the form of graphs for various initial conditions; they permit one to find an expression for the maximum angle of heel during a jerk. By equating that angle of heel to a value that would be dangerous from the point of view of flooding (or capsizing) an expression for the limiting jerking speed can be obtained. The formula obtained comprises entrained-mass coefficient terms, which must be determined by solving the problem of the flow about an elliptical cylinder. The final formula for the limiting jerking speed contains a function which is dependent on the fastening point of the

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SOV/124-58-1-694

Contribution to the Standardization of the Stability of Tugboats

towing hook. A graph of that function shows that the limiting speed increases with an increasing abscissa and a decreasing z-coordinate of the hook. The formula for the limiting jerking speed obtained with due consideration of the accelerations actually taking place during such a motion differs from those obtained earlier through its consideration of the weight of the hawser, its degree of tightness, and a quantitatively different relationship relative to the fastening point of the towing hook.

Ye. V. Sukacheva

Card 2/2

YAN, C. Y., and F. LINHART, K.K.  
Polymer Inst.

"Application of the Results of Low-Speed-Ration Wing Theory to the Solution  
of Some Steering Problems,  
presented at Symposium on Behavior of Ship in a Seaway, Copenhagen,  
Netherlands, 7-10 Oct 57.

32-8-48/61

AUTHORS Zykov, D.D., Khlebnikova, V.V.  
Sobolev, G.V.

TITLE Heating Devices for Laboratory Rectification Columns.  
(Sposob obogreva laboratornykh rektifikatsionnykh kolonn.)

PERIODICAL Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 8,  
pp. 995-995 (USSR)

ABSTRACT In order to obtain the most favorable a diabatic conditions  
in the heating plant of rectification columns a new heating  
system is suggested in this paper, which is characterized  
mainly by the fact that the principal column as well as  
its covering are made of the same material in order that  
equal linear expansion of both be attained. The device is  
described as follows: Its basic component is the boiler  
upon which the rectrification column rests. In the upper  
part of the column there is the column head with a conden-  
ser and an outlet pipe for fractions with a straight-way  
cock. The boiler receives its heat from the electric  
heating coil, which is wound round the main column. The  
outer encasing column also has a heating network. By  
automatically switching on the two heating systems alter-  
natingly a uniform heating of the entire rectification  
column is warranted, i.e. for the case that the interior  
column

CARD 1/2

32-8-48/61

- Heating Devices for Laboratory Rectification Columns.

receives more heat by rising vapors in the interior, it simultaneously expands to a greater extent than the exterior encasing column. This fact itself causes switching on of the heating network in the external encasement column, and the switching off of the interior heating, so that the difference in temperature is soon equalized. This arrangement of the heating order in the rectification column was found to be satisfactory. There is 1 figure.

ASSOCIATION: Moscow Institute for the Construction of Machines Used in  
Chemical Industry  
(Moskovskiy Institut khimicheskogo mashinostroyeniya).  
AVAILABLE: Library of Congress.

CARD 2/2

*Sobolev*

32-2-59/60

AUTHORS: Zykov, D. D. , Lytkin, I. A. , Sobolev, G. V. , Khlebnikova, V. V.

TITLE: A Device for Recording the Distillation Curve (Pribor dlya zapisi krivoy razgonki)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol. 24, Nr 2, pp. 222 - 223 (USSR)

ABSTRACT: An automatic device recording the boiling temperature and the amounts of distilled substance in rectification columns was developed (according to WPK) at the institute mentioned below. The distillate flows into a container, which is in equilibrium on beam scales with weights (from an automatic apparatus). The weight of the distillate causes a lowering of the beam, which short-circuits a contact and thus causes the operation of a relay, which again starts off an automatic device. A paper slip begins to move, which is adjusted according to temperature by a thermocouple, the temperature being recorded on the slip. A galvanometer records the curve until the appliance released at the same time for the balancing of the weight

Card 1/2

32-2-33/60

A Device for Recording the Distillation Curve

re-establishes equilibrium and thus releases the trip-up contact. A figure showing the apparatus and a distillation curve (HK) is given. There are 2 figures, and 1 reference, which is Slavic.

ASSOCIATION: Moscow Institute of Chemical Machine-Building  
(Moskovskiy institut khimicheskogo mashinostroyeniya)

AVAILABLE: Library of Congress  
1. Distilling plants-Equipment

Card 2/2

10.4000  
AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

67588  
SOV/179-59-5-6/41  
Sobolev, G.V. and Fedayevskiy, K.K. (Moscow, Leningrad)  
Application of the Theory of Wing of Small Aspect Ratio  
to the Solution of Ship Controllability Problems

Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh  
nauk, Mekhanika i mashinostroyeniye, 1959, Nr 5,  
pp 27-33 (USSR)

The basic problem in the analysis of controllability in the steering of ships is the determination of forces arising on the ship's hull during its movement with an angle of drift and an angular velocity combined. No solution exists yet for the flow around a body taking part in such motion in a viscous liquid. Solutions exist for an ideal liquid. The only method for determining the forces on the hull is to solve a simplified substitution problem wherein the hull is replaced by a wing of small aspect ratio moving at an incidence equal to the drift angle in the presence of an angular velocity varying along the length of the ship. The span of the wing is twice the draught of the ship. Thus the water surface is considered to act as a wall, which is true at moderate speed when the Froude Number is below 0.2.

Card 1/3

67588

SOV/179-59-5-6/41

Application of the Theory of Wings of Small Aspect Ratio to the  
Solution of Ship Controllability Problems

The chord is the hull length along the water line. Typical aspect ratios are in the range of 0.03 to 0.15. The hydrodynamic forces and moments are divided into those due to inertia, which appear in the ideal fluid theory, and those due to viscosity. The first type can be predicted with corrections due to the thickness of the profile. For the second type, account of thickness cannot yet be taken in an exact solution but a correction factor has already been introduced by the present authors in their previous work. The force and moment coefficients for the various components are formulated and it is shown that they are non-linear functions of the incidence and the angular velocity. The most convenient presentation is obtained when the force and moment coefficients are referred to the product of incidence and angular velocity. The steering controllability is derived by determining the radius of steady turning. One of the conclusions concerns the problem whether steady turning can be performed with a neutral rudder. In the light of the linear theory this is possible only in a dynamically

Card 2/3

67588

SOV/179-59-5-6/41

Application of the Theory of Wings of Small Aspect Ratio to the  
Solution of Ship Controllability Problems

neutral ship. The well known property of dynamically  
unstable ships (by the linear theory) to enter with  
neutral rudder into a steady turn is entirely due to  
the nonlinearity of the hydrodynamic characteristics of  
the ship. There are 4 figures and 5 references, 2 of  
which are Soviet, 2 English and 1 German. X

SUBMITTED: February 5, 1958

Card 3/3

SOBOLEV, G.V., kand.tekhn.nauk

Calculating the maneuverability of ocean-going cargo ships.  
Trudy TSNIIMF 7 no.35:49-62 '61. (MIRA 14:2)  
(Ship resistance)

FEDIAYEVSKIY, Konstantir Konstantinovich; SOBOLEV, Gennadiy  
Vasil'yevich; BASIN, A.M., prof., doktor tekhn. nauk,  
retsenzent; FIRSOV, G.A., doktor tekhn.nauk, nauchn.  
red.; KUSKOVA, A.I., red.; SHISHKOVA, L.M., tekhn. red.

[Maneuverability of a ship] Upravliaemost' koroblia. Le-  
ningrad, Sudpromgiz, 1963. 374 p. (MIRA 16:8)  
(Hulls (Naval architecture))  
(Stability of ships)

SOBOLEV, I. (Al'met'yevsk, Tatarskaya ASSR)

Main problem is educational work. Pozh.delo 4 no.12:12 D '58.  
(MIRA 11:12)

(Fire prevention--Study and teaching)

SOBOLEV, I.A., inzhener.

Center of progressive practices. Sudostroenie 23 no.1:54-58 Ja '57.

(MIRA 10:10)

(Electric engineering--Exhibitions)

SOBOLEV, I.A., inzh.

Repairing d.c. propulsion motors and generators on the ship. Sudostroenie  
26 no.9:53-55 S'60. (MIRA 13:10)  
(Ship propulsion, Electric) (Electric motors--Maintenance and repair)  
(Electric generators--Maintenance and repair)

L 29006-66 EWT(m)/EWG(m)/ETC(f)/EPF(n)-2 WW

ACC NR: AP6018877

SOURCE CODE: UR/0240/65/000/004/0079/0080

AUTHOR: Sobolev, I. A. (Engineer); Khomchik, L. M. (Engineer)

ORG: none

TITLE: Combined burial of solid and liquid radioactive waste

SOURCE: Gigiyena i sanitariya, no. 4, 1965, 79-80

TOPIC TAGS: radioactive waste disposal, reinforced concrete, radioactive waste disposal equipment

ABSTRACT: The authors point out the inefficiency and high cost of separate burial of liquid and solid radioactive waste in underground tanks. Liquid waste is buried in 200 cubic meter metal-lined concrete tanks, a very expensive method for disposal of  $n \cdot 10^{-6}$  -  $n \cdot 10^{-4}$  curies per liter. Solid waste is buried in 600 cubic meter reinforced concrete tanks, but 45-50% of the capacity is taken up by the air space between the solid objects. The authors propose making a cement solution with the liquid waste and then using this solution to fill the interstices between the objects of solid waste, thus forming a concrete monolith inside the disposal bunker. The cement silo and mixer are located directly over the tank, and liquid waste is piped directly from a tank truck into the mixer. In using this method the 600 cubic meter bunkers used for solid waste are sectioned into compartments with a capacity of 50-100 cubic meters. The method gives better protection against leakage and migration of radioactive substances, and it reduces the cost of storing liquid waste by 40-50%. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 18, 13 / SUEM DATE: 04 Feb 64 / ORIG REF: 001  
Card 1/1 UDC: 628.54:628.58+628.58:628.54+614.898.5:628.54

SOBOLEV, I.D.; SHTEYNBERG, D.S.

Boris Mikhailovich Romanov, 1893-1956; obituary. Mat.po geol.i  
pol.iskop.Urala no.6:3-12 '58. (MIRA 12:10)  
(Romanov, Boris Mikhailovich, 1893-1956) /  
(Ural Mountains--Geology)

SOBOLEV, I.D.

Basic characteristics of the magmatic activity in the Urals. Biul.  
MOIP.Otd.geol. 35 no.4:132-133 J1-Ag '60. (MIRA 14:4)  
(Ural Mountains--Magma)

SHTEYNBERG, D.S., otv. red.; IGUMNOV, A.N., red.; PLOTNIKOV, S.N., red.;  
SOBOLEV, I.D., red.; FAVORSKAYA, A.P., red. izd-va; SEREDKINA,  
N.F., tekhn. red.

[Guidebook for the Sverdlovsk excursion] Putevoditel' Sverdlov-  
skoi ekskursii. Sverdlovsk, 1961. 135 p. (MIRA 14:8)

1. Ural'skoye petrograficheskoye soveshchaniye, 1st.  
(Sverdlovsk region—Geology—Field work)

LIDER. I.I.; BERLASS, V.A., otv.red.; MONUSHIN, K.V., red.; YERMAKOV, N.P.,  
red.; KOROL'KOV, A.A., red.; KORNENKOV, K.Ye., red.; NECHAYEV, P.V.,  
red.; POYARKOV, M.A., red.; PURKIN, A.V., red.; SOBOLEV, I.D., red.;  
TARKHANEYEV, B.P., red.

[Geology of the Northern Sos'ta brown coal basin.] Geologia  
Severosos'tvinskogo turogol'nogo basseina. Moskva, Nedra,  
1964. 144p. (Materialy po geologii i poleznym iskopaemym  
Urals, no.17) (MIRA 18:4)

1951

AMS/A4B  
SOBOLEV, I. G.

551 500.317:551.547.1:629.13  
Sobolev, I. G. "Uslovnaya vysota" v aerologicheskikh telegrammakh. ["Equivalent  
altitude" in aerological telegrams]. *Meteorologiya i Gidrometeorologiya*, No. 370-71, 1947. 3 tables,  
11 equations. DWB The paper contains an account of the report Du. Prilozheniya presented  
at the meeting of the Commission on Aviation Meteorology in Paris in June 1946 about a  
uniform method for determining equivalent height and meteorology. Examples for corrections  
are given in table 1. Computation tables, Equivalent height, Aeronautical  
meteorology. 1 A

ARTALLURGICAL LITERATURE CLASSIFICATION

AMS/ATB  
SOBOLEV, I. G

1951

210 15  
Sobolev, I. G. Soyeshchanna Merkhunarodnat Meteorologicheskoi Komissii v Parizhe  
v ianuarie 1946 g. [Meeting of the International Meteorological Commission in Paris in  
January 1946]. *Meteorologicheskii Zhurnal*, No. 3, 1947. DWH. Report on the  
decisions of the meeting including the new code for transmission of observations from ground  
stations which is presented herewith. The activities involving the U.S.S.R. and in which  
representatives of the Soviet Hydrometeorological Society participated are described. (Euro-  
pean Regional Commission, Commission on Aeronomy, Meteorology and Synoptic Com-  
mission). *Subject Headings*: I.M.O. Conference; Synoptic codes; U.S.S.R. (U.S.A.).

ASSOCIATED METEOROLOGICAL LITERATURE CLASSIFICATION

151 AND ONLY 151  
151 AND ONLY 151

SOBOLEV, I G

✓ Sobolev, I. G., *Meteorologicheskie issledovaniia v Antarktike*. [Meteorological research in the Antarctic.] *Meteorologiya i Gidrologiya*, Leningrad, No. 1:60-61, Jan. 1956. DWB, 17  
DLC—The Soviet program of meteorological research in Antarctica in connection with the IGY is described. This includes weather studies, aerological research, energy balance at the earth's surface, etc. Soviet institutions participating in the program and the names of individual participants are mentioned. Subject Headings: 1. Russian participation in IGY. 4  
2. Meteorological research 3. U.S.S.R.—I.L.D. 12A //

SOBOLEV, I.I. [deceased]; VOROBTSOV, V.I.; GORELIK, S.L., redaktor;  
BOBRŌVA, Ye.N., tekhnicheskiiy redaktor

[Urological diseases requiring immediate surgery] Neotloshnaia  
khirurgicheskaiia urologiia. Moskva, Gos. izd-vo meditsinskoy lit-  
ry, 1954. 162 p. (MLRA 7:10)  
(Genitourinary organs--Diseases)

SOBOLEV, I.M.; SIMANKOV, G.M., otv. red.; KOVALEV, O.I., red.; KOGAN,  
I.B., red.; LOVYAGIN, N.V., red.; NAZAROVA, N.V., red.;  
GOL'DSHTEYN, L.Ye., red.; DURASOVA, V.M., tekhn.red.

[Guidebook to the city of Kuybyshev] Putevoditel' po gorodu  
Kuibyshevu. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1962.  
319 p. (MIRA 16:9)

(Kuybyshev--Guidebooks)

SOBOLEV, I. N.

36210 Bor'ba s zanosami na lesovoznykh dorogakh. Les. prom-st', 1949, No. 11, S. 9

SO: Letopis' Zhrunal'nykh Statey, No. 49, 1949

SOBOLEV, I.N., professor.

New apartment building on Sadovaia-Triumfal'naia Street. Gor.  
khoz.Mosk. 24 no.1:27-28 Ja '50. (MLRA 7:11)

1. Chlen-korrespondent Akademii arkhitektury SSSR.  
(Moscow--Apartment houses) (Apartment houses--Moscow)

YEMEL'YANOV, V.S., otv.red.; BARDIN, I.P., red.; VINOGRADOV, A.P., red.;  
 GOL'DANSKIY, V.I., red.; GULYAKIN, I.V., red.; DOLIN, P.I., red.;  
 YEFREMOV, D.V., red.; KRASIN, A.K., red.; LEBEDINSKIY, A.V., red.;  
 MINTS, A.L., red.; MURIN, A.N., red.; NIZE, V.E., red.; NOVIKOV,  
 I.I., red.; SEMENOV, V.F., red.; SOBOLEV, I.N., red.; BAKHAROVSKIY,  
 G.Ya.; nauchnyy red.; BERKOVICH, D.M., nauchnyy red.; DANOVSKIY,  
 N.F., nauchnyy red.; DELONE, N.N., nauchnyy red.; KON, M.A.,  
 nauchnyy red.; KOPYLOV, V.N., nauchnyy red.; MANDEL'TSVAYG, Yu.B.;  
 MILOVIDOV, B.M., nauchnyy red.; MOSTOVENKO, N.P., nauchnyy red.;  
 MURINOV, P.A., nauchnyy red.; POLYAKOV, I.A., nauchnyy red.;  
 PREOBRAZHENSKAYA, Z.P., nauchnyy red.; RABINOVICH, A.M., nauchnyy  
 red.; SIMKIN, S.M., nauchnyy red.; SKVORTSOV, I.M., nauchnyy red.;  
 SYSOYEV, P.V., nauchnyy red.; SHORIN, N.A., nauchnyy red.;  
 SHREYBERG, G.L., nauchnyy red.; SHTEYNMAN, R.Ya., nauchnyy red.;  
 KOSTI, S.D., tekhn.red.

[Concise atomic energy encyclopedia] Kratkaya entsiklopediya  
 "Atomnaya energiya." [\_\_\_Tables of isotopes (according to published  
 data available at the beginning of 1958)] \_\_\_Tablitsa izotopov (po  
 dannym, opublikovannym k nachalu 1958. 12 p. Gos. nauch. izd-vo  
 "Bol'shaya sovetskaya entsiklopediya," 1958. 610 p. (MIRA 12:1)

1. Sotrudniki Bol'shoy Sovetskoy Entsiklopedii (for Bakharovskiy,  
 Berkovich, Danovskiy, Delone, Kon, Kopylov, Mandel'tsvayg, Milo-  
 vidov, Mostovenko, Murinov, Polyakov, Preobrazhenskaya, Rabinovich,  
 Simkin, Skvortsov, Sysoyev, Shorin, Shreyberg, Shteynman).  
 (Atomic energy)

LEPP, R. [Lapp, Ralph E.]; RUBAL'SKIY, B.G. [translator]; ROGINKO, Yu.Ya.  
[translator]; SHVEYTSER, A.D. [translator]; SOBOLEV, I.N.,  
general-mayor, red.; DEYEV, M.N., red.; KHOMYAKOV, A.D., tekhn.red.

[Atoms and people] Atomy i liudi. Pod red. I.N.Soboleva. Moskva,  
Izd-vo inostr.lit-ry, 1959. 286 p. (MIRA 12:8)  
(Atomic energy)

Stolich, I.S.

Clinical aspects and treatment of trichinosis. Sov. med. 28 no.5:  
(MIRA 18:5)  
142-144 My '65.

1. Kafedra Infektsionnykh Bolezney (nachal'nik - prof. P.A.  
Allssov) Voenno-meditsinskoy ordona Lenina akademii imeni Kirova,  
Leningrad.

SOBOLEV, I. P.

Transthорacic abscessonecrotomy in tuberculous lesion of the  
thoracic segment of the spine. Khirurgiia 38 no.5:56-59 My '62.  
(MIRA 15:6)

1. Iz Krasnodarskogo krayevogo protivotuberkuleznogo dispansera  
(glavnyy vrach - zasluzhennyy vrach RSFSR A. I. Ukrainchenko)

(SPINE—TUBERCULOSIS)  
(CHEST—SURGERY)

ACC NR: AP6031522

SOURCE CODE: UR/0292/66/000/009/0021/0023 (1)

AUTHOR: Meyerovich, Ye. A. (Engineer); Palastin, L. M. (Candidate of technical sciences); Platonov, A. M. (Candidate of technical sciences); Popov, K. K. (Engineer); Serebryanik, L. B. (Engineer); Sobolev, I. S. (Engineer); Syzrantsev, V. I. (Engineer)

ORG: none

TITLE: Disk-type brushless synchronous generator

SOURCE: Elektrotehnika, no. 9, 1966, 21-23

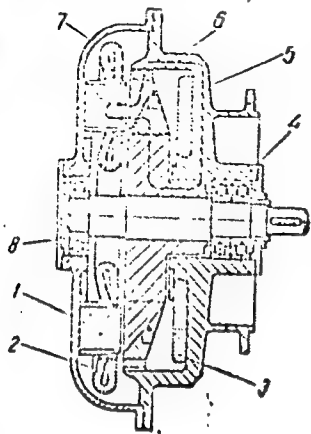
TOPIC TAGS: synchronous generator, electric machine, brushless generator, electric generator, magnetic circuit

ABSTRACT: A general description of a new design (Author's Certificate 169656, Bull. izobr., 1965, no. 7) of disk-type synchronous generator (see figure) is presented; the generator was developed at VNIEM. This design is an improvement over a previous "externally-closed-magnetic-circuit" construction (VZP). Design features and some characteristics of both are compared. These conclusions are offered: (1) The new design has a smaller weight and axial length than other types of brushless synchronous generators; (2) The new rotor has high mechanical strength;

UDC: 621.313.322

Card 1/2

ACC NR: AP6031522



its poles are not subjected to bending forces (as is the case in claw-type construction); (3) The new construction is stiff and has good heat removal and ventilation conditions. "Cand. Techn. Sc. G. N. Fridman, Engineers Ye. V. Kel'tseva, E. I. Sagalov, V. P. Pyatkov, N. I. Shcherbakov, S. K. Eytminovich, and others took part in developing the design and manufacturing practices of the new generator." Orig. art. has: 6 figures and 1 table.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 004

Card 2/2

SOBOLEV, I.V.

Eliminate violations of safety regulations in enterprises of the  
Al'met'evneft'. Bezop.truda v prom. 4 no.11:36 N '60.  
(MIRA 13:11)

1. Instruktor voyenizirovannoy pozharney chasti, g. Al'met'yevsk.  
(Al'met'evsk--Oil fields--Safety measures)

L 18029-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(h) IJP(c) WG/WW/GG  
ACC NR: AP6007012 SOURCE CODE: UR/0051/66/020/002/0342/0344

AUTHOR: Cheremiskin, I. V.; Makeyev, V. S.; Sobolev, I. V.

ORG: none

TITLE: Experimental determination of the light amplification factor in a gas discharge

SOURCE: Optika i spektroskopiya, v. 20, no. 2, 1966, 342-344

TOPIC TAGS: gas discharge, gas laser, laser emission, helium neon laser

ABSTRACT: The authors study the coefficient of light amplification in a gas discharge using a source with a continuous emission spectrum for modulating the discharge and a receiver consisting of a spectroscope, a photomultiplier, and a synchronous detector. A brief description of the experimental equipment is given. The intensity of spontaneous emission on the line being studied was measured and used as the initial value for the signal reading. The light source was then switched on and amplified by population inversion in the discharge tube or attenuated in the absence of population inversion. For small amplification factors (or absorption coefficients) the change in the indicator readings is proportional to the amplification

Card 1/2

UDC: 621.375.9 : 534 2

L 18029-66

ACC NR: AP6007012

3  
factor (or absorption coefficient). The amplification factor was measured with an absolute error of approximately 0.4%. The measurements were made in a helium-neon gas discharge. The pressure in the discharge tube was held at approximately 3.5 mm Hg with a helium:neon partial pressure ratio of 8:1. The power of the high frequency discharge was approximately 250 w. The tabulated results indicate lines which may be used for laser emission. "In conclusion, the authors are grateful to L. N. Deryugin for interest in the work." Orig. art. has: 1 figure, 1 table. [14]

SUB CODE: 20/ SUBM DATE: 10May65/ ORIG REF: 003/ OTH REF: 003/ ATD PRESS: 4212

Card 2/2

vmb

SOBOLEV, I.V., aspirant

Effect of log barking on the fineness and precision of frame sawing.  
Nauch. trudy TSNIIMOD no.11:48-65 '61. (MIRA 17:9)

SOBOLEV, I.V.

Increase the volume of deliveries by means of sawing debarked logs. Der.prom. 11 no.3:17-18 Mr '62. (MIRA 15:2)

1. Leningradskaya lesotekhnicheskaya akademiya im. S.M. Kirova.

(Lumbering)

SOBOLEV, I.V.

Cutting modulus in sawing unbarked and barked logs with a frame  
saw. Der. prom. 12 no.1:13 Ja '63. (MIRA 16:5)  
(Saws)

SOBOLEV, I.V., kand. tekhn. nauk

Barking saw logs increases the durability of frame saws. Ser.  
prom. 13 no.8:3-4 Ag '61.

(MIRA 17:11)

1. Kareli'skiy proyektnyy i nauchno-issledovatel'skiy institut  
lesnoy i derevoobrabatyvayushchey promyshlennosti.

USSR / Farm Animals. Honey Producing Bees.

U-11

Abs Jour : Ref Zhur - Biologiya, No 16, 1957, 72235

Author : Sobolev, K.

Title : The Breeding of Bees

Orig Pub : Zemledelie i zhivotnovodstvo Moldavavii, 1956, No 10,43

Abstract : In Kishinev, the Moldavian Government bee breeders in 1955, obtained 1,600 fertile queen bees and 207 "otvodkov". The native bees represented a mixture of the South Ukrainian with a considerable presence of the Italian bee's blood. Since 1950, the native bee was crossed with the grey mountainous and by selection as to the biological and economic factors, a new stable species of bees was obtained. These bees begin to work at the temperature of 7-8 degrees C, are active, do little swimming, are highly resistant to disease, peace-loving, and produce wet honey. The crossing with the Kabakhtapin bee proved to be unstable, particularly towards nosematosis.

Card : 1/1

- 81 -

SOBOL'EV, K.A. (deceased); FRIDLYAND; I.G.; SHEBALIN, O.D.

Organization of scientific prospective fishery surveys in the  
Atlantic Ocean. Trudy sov. Ikht. kom. no.10:243-244 '60.  
(MIRA 13:10)

1. Baltiyskiy nauchno-issledovatel'skiy institut morskogo  
rybnogo khozyaystva i okeanografii-(BaltNIRO).  
(Atlantic Ocean--Fisheries--Research)

SOBOLEV, K.A.

Welded flasks made of rolled shapes. Lit.proizv. no.9:20-21  
S '62. (MIRA 15:11)  
(Foundries--Equipment and supplies)

SOBOLEV, K.A.

Standardization of founding equipment. Standartizatsiia 28  
no.7:38-40 J1 '64. (MIRA 17:11)

SCROLD-V, K.A., inzh.

Calculation of gating systems. Lit. proizv. no.11:  
45-46 N '65. (MIRA 18:12)

SOBOLEV, K.G.

Some problems in X-ray diagnosis of mitral defects. Trudy LPMI 31 no.2:  
409-413 '63. (MIRA 17:10)

1. Iz rentgenologicheskogo otdeleniya Ob'yedinennoy bol'nitsy imeni  
Kuybysheva, Leningrad.

SOROLEV, K.G.

Study of X-ray data and heart dimensions following ligation of the  
external iliac vein in patients with chronic cardiac insufficiency.  
Vrach.delo no.9:943-945 S'58 (MIRA 11:10)

1. Kafedra fakul'tetskoy terapii (zav. - prof. A.A. Kedrov) i  
kafedra rentgenoradiologii (zav. - prof. B.M. Shtern) Leningradskogo  
sanitarno-gigiyenicheskogo meditsinskogo instituta.  
(ILIAC VEINS--LIGATURE)  
(HEART FAILURE)

SOBOLEV, K.G.

Roentgenokymographic and volumetric changes of the heart following therapy of cardiac insufficiency by ligation of the external iliac veins. Trudy LSGMI 40:94-99 '58.

(MIRA 12:8)

1. Fakul'tetskaya terapevticheskaya klinika Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. klinikoy - prof.A.A.Kedrov) i Kafedra rentgenologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof.B.M.Shtern.

(CONGESTIVE HEART FAILURE, surgery,

ligation of iliac veins, postop. x-ray kymography & heart volume changes (Rus))

(VEINS, ILLIAC, surgery,

ligation in congestive heart failure, postop. x-ray kymography & heart volume (Rus))

(KYMOGRAPHY, in var. dis.

roentgenokymography in congestive heart failure after ligation of iliac veins (Rus))

ZHELIGOVSKIY, V.; SOBOLEV, L.; CHIKALIKI, G.

Soil and plow. Znan. sila 36 no. 2:2-5 F '61.  
(Soils) (Tillage)

(MIRA 14:5)

SOBOLEV, L.A.

SIDOROV, F.F.; ZGIRSKIY, Ch.I.; ANAKIN, I.A.; YERAKHTIN, D.D., kandidat  
tekhnicheskikh nauk, retsenzent; SOBOLEV, L.A., inzhener, retsenzent;  
BUSHUYEV, N.M., kandidat tekhnicheskikh nauk, redaktor; SHABASHOV, A.P.,  
kandidat tekhnicheskikh nauk, redaktor.

[Repair of agricultural machinery] Remont sel'skokhoziaistvennykh  
mashin. Sverdlovsk, Gos. nauchno-tekhn. izd-vo mashinostroit. i  
sudostroit. lit-ry [Uralo Sibirskoe otd-nie] 1953. 295 p. (MLRA 7:6)  
(Agricultural machinery--Repairing)

KURATOV, Aleksey Ivanovich; ALEKSEYEV, G.P., inzh., red.; BUSHUYEV, N.M.,  
kand.tekhn.nauk, red.; GUTMAN, I.M., inzh., red.; KUZ'MOV, N.T.,  
inzh., red.; PICHAK, F.I., kand.tekhn.nauk, red.; POLKANOV, I.P.,  
kand.tekhn.nauk, red.; SOBOLEV, L.A., inzh., red.

[Running-in and testing of motor-vehicle engines after repair]  
Obkatka i ispytanie avtotraktornykh dvigatelei posle remonta.  
Moskva, Gos.nauchno-tekh.izd-vo mashinostroit.lit-ry, 1959.  
75 p. (MIRA 13:5)  
(Motor-vehicles--Engines--Maintenance and repair)

PICHAK, Fedor Ivanovich, kand.tekhn.nauk; ALEKSEYEV, G.P., inzh., red.;  
KUZ'MOV, N.T., inzh., red.; PYATETSKIY, B.G., inzh., red.;  
PLAKSIN, V.N., inzh., red.; SOBOLEV, L.A., inzh., red.;  
IGNAT'YEV, M.G., agronom, red.; MARCHENKOV, I.A., tekhn.red.

[Checking parts in repairing tractors and agricultural machinery]  
Kontrol' detalei pri remonte traktorov i sel'skokhoziaistvennykh  
mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'nykh  
1960. 89 p. (MIRA 14:1)

(Tractors--Maintenance and repair)  
(Agricultural machinery--Maintenance and repair)

GUTMAN, Isif Moiseyevich; PICHAK, Fedor Ivanovich; RABOVSKIY, A.V., inzh.,  
retsenzent; SOBOLEV, L.A., inzh., retsenzent; BUSHUYEV, N.M.,  
kand.tekhn.nauk, red.; DUGINA, N.A., tekhn.red.

[Tractors and motor vehicles; manual for workers of collective  
farms] Traktory i avtomobili; spravochnik kolkhoznogo rabotnika.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.  
163 p. (MIRA 13:9)

(Motor vehicles)

L 08097-67 EWP(j)/EWP(k)/EWT(d)/EWT(m)/EMP(w)/EMP(v)/EWP(t)/ETI IJP(c)  
 ACC NR: AP6029959 EM/RM/WW/JD/HM SOURCE CODE: UR/0413/66/000/015/0145/0145 51/13  
 INVENTOR: Grishin, G. N.; Maksimov, V. P.; Sobolev, N. A.; Khammatov, V. K.  
 ORG: none  
 TITLE: A device for bonding <sup>16</sup>honeycomb fillers to <sup>16</sup>aircraft skin. Class 62, No. 184626  
 SOURCE: Izobret prom obraz to y zn, no. 15, 1966, 145  
 TOPIC TAGS: adhesive bonding, <sup>24</sup>honeycomb structure, ~~aircraft industry~~ *airframe component, hydraulic equipment*  
 ABSTRACT: An Author Certificate has been issued for a device for cementing honeycomb fillers to aircraft skin. It consists of a housing with a cover, a recess for mounting cemented parts, a hinge with a pin catch for fastening parts, a hydraulic elevator, sleeves for carrying pressurized gas, and reduction valves. For higher efficiency this device is equipped with sealed-membrane compartments which hold pressurized gas and with an electric heater which, at the given time, polymerizes the glue. [SA]  
 SUB CODE: . 01, 13, /// SUBM DATE: 31May65

Card 1/1

UDC: 629.135/138

SOBOLEV, L.G.

Efficient selection of the correlation of parameters of differentiating units having inertia meters. Izv.tekh. no.8:15-18 Ag '60.  
(MIRA 13:9)

(Measuring instruments)

SOBOLEV, L.G., inzh.

Charateristics of marine boilers with internal steam cooling  
systems. Sudostroenie 26 no.8:30-34 Ag '60. (MIRA 13:10)  
(Boilers, Marine)

SOBOLEV, L. G.

Cand Tech Sci - (diss) "Study of problems of the automatic control of temperature of steam in ship boiler installations." Leningrad, 1961. 14 pp; (Ministry of Maritime Affairs, Leningrad Higher Naval Engineering Establishment imeni Admiral S. O. Makarov); 150 copies; price not given; list of author's works on pp 13-14 (11 entries); (KL, 6-61 sup, 226)